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Doran R. Pace, Patent Attorney

INFORMATION DISCLOSURE STATEMENT
Patent Application
Docket No. UF-382XC1
Serial No. 10/577,611

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants	:	L. Curtis Hannah, Maureen Anne Clancy
Serial No.	:	10/577,611
Filed	:	April 28, 2006
For	:	Materials and Methods for Improved Sweet Corn

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR §§1.97 AND 1.98

Sir:

In accordance with 37 CFR §1.56, the references listed on the attached form PTO/SB/08 are being brought to the attention of the Examiner for consideration in connection with the examination of the above-identified patent application. A copy of each cited reference is enclosed. However, Applicants have not submitted copies of the U.S. patents or published U.S. Patent Applications cited on attached Form PTO/SB/08 pursuant to 37 CFR 1.98(a)(2)(ii).

It is respectfully requested that the references cited on the attached form PTO/SB/08 be considered in the examination of the subject application and that their consideration be made of record.

Applicants respectfully assert that the substantive provisions of 37 CFR §§1.97 and 1.98 are met by the foregoing statement.

Respectfully submitted,

Doran R. Pace
Patent Attorney
Registration No. 38,261
Phone No.: 352-375-8100
Fax No.: 352-372-5800
Address: P.O. Box 142950
Gainesville, FL 32614-2950

DRP/kmm
Attachments: Form PTO/SB/08; copies of cited references.

PTO/SB/08A (08-03)
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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 4

Complete if Known	
Application Number	10/577,611
Filing Date	April 28, 2006
First Named Inventor	L. Curtis Hannah
Art Unit	*Not yet assigned*
Examiner Name	*Not yet assigned*
Attorney Docket Number	UF-382XC1

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. [1]	Document Number: Number - Kind Code [2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	U1	US-6,410,716	06-25-2002	MYERS *et al.*	All
	U2	US-6,184,438	02-06-2001	HANNAH	All
	U3	US-6,573,009	06-03-2003	GRAHAM	All
	U4	US-6,506,559	01-14-2003	FIRE *et al.*	All
	U5	US-5,589,618	12-31-1996	HANNAH *et al.*	All
	U6	US-5,650,557	07-22-1997	HANNAH *et al.*	All
	U7	US-5,872,216	02-16-1999	HANNAH *et al.*	All
	U8	US-6,403,863	06-11-2002	HANNAH *et al.*	All
	U9	US-6,069,300	05-30-2000	HANNAH *et al.*	All
	U10	US-6,274,792	08-14-2001	CHANG *et al.*	All
	U11	US-5,955,330	09-21-1999	VASIL *et al.*	All
	U12	US-6,288,311	09-11-2001	MARSHALL *et al.*	All
	U13	US-5,004,864	04-02-1991	ROBERTSON *et al.*	All
	U14	US-2003/0108923	06-12-2003	TUSCHL *et al.*	All
	U15	US-2002/0086356	07-04-2002	TUSCHL *et al.*	All

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. [1]	Foreign Patent Document: Country Code [3] - Number [4] - Kind Code [5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T [6]
	F1	WO 02/44321	06-06-2002	MAXPLANCK-GESELLSCHAFT ZUR FÖRDERUNG DER WISSENSCHAFTEN E.V.	All	
	F2					

Examiner Signature		Date Considered	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 2 of 4

Complete if Known	
Application Number	10/577,611
Filing Date	April 28, 2006
First Named Inventor	L. Curtis Hannah
Group Art Unit	*Not yet assigned*
Examiner Name	*Not yet assigned*
Attorney Docket Number	UF-382XC1

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. [1]	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T [2]
	R1	AINSWORTH, C. *et al.* "Adenosine Diphosphate Glucose Pyrophosphorylase Genes in Wheat: Differential Expression and Gene Mapping", *Planta*, 1995, pp. 1-10, Vol. 197.	
	R2	ANDERSON, J. M. *et al.* "The Encoded Primary Sequence of a Rice Seed ADP-glucose Pyrophosphorylase Subunit and its Homology to the Bacterial Enzyme", *J. Biol. Chem.*, 1989, pp. 12238-12242, Vol. 264, No. 1.	
	R3	ANDERSON, J. M. *et al.* "Molecular Characterization of the Gene Encoding a Rice Endosperm-Specific ADPglucose Pyrophosphorylase Subunit and its Developmental Pattern of Transcription", *Gene*, 1991, pp. 199-205, Vol. 97.	
	R4	ARMSTRONG, C.L. *et al.* "Establishment and Maintenance of Friable, Embryogenic Maize Callus and the Involvement of L-proline", *Planta*, 1985, pp. 207-214, Vol. 164.	
	R5	BAE, J.M. *et al.* "Cloning and Characterization of the *Brittle-2* Gene of Maize", *Maydica*, 1990, pp. 317-322, Vol. 35.	
	R6	BALLICORA, M. A. *et al.* "Adenosine 5'-Diphosphate-Glucose Pyrophosphorylase from Potato Tuber", *Plant Physiol.*, 1995, pp. 245-251, Vol. 109.	
	R7	BHAVE, M.R. *et al.* "Identification and Molecular Characterization of *Shrunken-2* cDNA Clones of Maize", *Plant Cell*, June 1990, pp. 581-588, Vol. 2.	
	R8	DICKINSON, D.B. *et al.* "Presence of ADP-Glucose Pyrophosphorylase in Shrunken-2 and Brittle-2 Mutants of Maize Endosperm", *Plant Physiol.*, 1969, pp. 1058-1062, Vol. 44.	
	R9	FRAME, B.R. *et al.* "Production of Transgenic Maize from Bombarded Type II Callus: Effect of Gold Particle Size and Callus Morphology on Transformation Efficiency", *In Vitro Cell. Dev. Biol-Plant*, 2000, pp. 21-29, Vol. 36.	
	R10	COPELAND, L. *et al.* "Purification of Spinach Leaf ADPglucose Pyrophosphorylase", *Plant Physiol.*, 1981, pp. 996-1001, Vol. 68.	
	R11	GIROUX, M.J. *et al.* "ADP-glucose Pyrophosphorylase in *Shrunken2* and *Brittle2* Mutants of Maize", *Molecular and General Genetics*, 1994, pp. 400-408, Vol. 243.	
	R12	GREENE, TW. *et al.* "Mutagenesis of the Potate ADPglucose Pyrophosphorylase and Characterization of an Allosteric Mutant Defective in 3-phosphoglycerate Activation", *Proc. Natl. Acad. Sci., USA*, February 1996, pp. 1509-1513, Vol. 93.	

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Sheet 3 of 4

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Application Number	10/577,611
Filing Date	April 28, 2006
First Named Inventor	L. Curtis Hannah
Group Art Unit	*Not yet assigned*
Examiner Name	*Not yet assigned*
Attorney Docket Number	UF-382XC1

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	R13	GREENE, T.W. *et al.* "Aspartic Acid 413 is Important for the Normal Allosteric Functioning of ADP-Glucose Pyrophosphorylase", *Plant Physiol.*, 1996, pp. 1315-1320, Vol. 112.	
	R14	HANNAH, L.C. *et al.* "Characterization of Adenosine Diphosphate Glucose Pyrophosphorylases from Developing Maize Seeds", *Plant Physiol.*, 1975, pp. 297-302, Vol. 55.	
	R15	HANNAH, L.C. *et al.* "Characterization of ADP-Glucose Pyrophosphorylase from *Shrunken-2* and *Brittle-2* Mutants of Maize", *Biochem. Genet.*, 1976, pp. 547-560, Vol. 14, No. 7/8.	
	R16	HANNAH, L.C. "Starch Synthesis in the Maize Endosperm", In: Advances in Cellular and Molecular Biology of Plants, 1997, pp. 375-405, Vol. 4., Larkins, B. A. *et al.* (eds.). Cellular and Molecular Biology of Plant Seed Development. Kluwer Academic Publishers, Dordrecht, The Netherlands.	
	R17	IGLESIAS, A. *et al.* "Expression of the Potato Tuber ADP-Glucose Pyrophosphorylase in *Escherichia Coli*", *J. Biol. Chem.*, 1993, pp. 1081-1086, Vol. 268, No. 2.	
	R18	LAL, J. *et al.* "The AG Dinucleotide Terminating Introns is Important but not Always Required for Pre-mRNA Splicing in the Maize Endosperm", *Plant Physiology*, May 1999, pp. 65-72, Vol. 120.	
	R19	LIN, T-P. *et al.* "A Starch Deficient Mutant of *Arabidopsis thaliana* with Low ADPglucose Pyrophosphorylase Activity Lacks One of the Two Subunits of the Enzyme", *Plant Physiol.*, 1988, pp. 1175-1181, Vol. 88.	
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	R21	MULLER-ROBER, B.T. *et al.* "One of Two Different ADP-glucose Pyrophosphorylase Genes from Potato Responds Strongly to Elevated Levels of Sucrose", *Mol. Gen. Genet.*, 1990, pp. 136-146, Vol. 224.	
	R22	NAKATA, P.A. *et al.* "Comparison of the Primary Sequences of Two Potato Tuber ADP-glucose Pyrophosphorylase Subunits", *Plant Molecular Biology,* 1991, pp. 1089-1093, Vol. 17.	
	R23	OKITA, T.W. *et al.* "The Subunit Structure of Potato Tuber ADPglucose Pyrophosphorylase", *Plant Physiol.*, 1990, pp. 785-790, Vol. 93.	
	R24	OKITA, T.W. *et al.* "Engineering Plant Starches by the Generation of Modified Plant Biosynthetic Enzymes", In: Engineering Crops for Industrial End Uses, 1996, Shewry, P. R., *et al.* (eds.). Portland Press LTD., London.	

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This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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	R25	OLIVE, M.R. *et al.* "Isolation and Nucleotide Sequences of cDNA Clones Encoding ADP-glucose Pyrophosphorylase Polypeptides from Wheat Leaf and Endosperm", *Plant Physiol. Mol. Biol.*, 1989, pp. 525-538, Vol. 12.	
	R26	PREISS, J. "Bacterial Glycogen Synthesis and its Regulation", *Ann. Rev. Microbial.*, 1984, pp. 419-458, Vol. 38.	
	R27	PREISS, J. *et al.* "Molecular Biology and Regulatory Aspects of Glycogen Biosynthesis in Bacteria", *Progress in Nuc. Acid Res. And Mol. Biol.*, 1994, pp. 299-329, Vol. 47.	
	R28	PREISS, J. *et al.* "Starch Synthesis in Sinks and Sources", In: Photassimilate Distribution in Plants and Crops: Source-Sink Relationships, 1996, Zamski, E. (ed.). pp. 139-168, Marcil Dekker Inc.	
	R29	SHAW, J.R. *et al.* "Genomic Nucleotide Sequence of a Wild-Type Shrunken-2 Allele of *Zea mays*", *Plant Physiology*, 1992, pp. 1214-1216, Vol. 98.	
	R30	SOMOGYI, M. "Notes on Sugar Determination", *Journal of Biological Chemistry*, 1952, pp. 19-23, Vol. 195.	
	R31	SPENCER, T.M. *et al.* "Bialaphos Selection of Stable Transformants from Maize Cell Culture", *Theor. Appl. Genet.*, 1990, pp. 625-631, Vol. 79.	
	R32	STARK, D.M. *et al.* "Regulation of the Amount of Starch in Plant Tissues by ADP Glucose Pyrophosphorylase", *Science*, 1992, pp. 287-292, Vol. 258.	
	R33	TSAI, C. Y. *et al.* "Starch-Deficient Maize Mutant Lacking Adenosine Diphosphate Glucose Pyrophosphorylase Activity", *Science*, 1966, pp. 341-343, Vol. 151.	
	R34	VAIN, P. *et al.* "Osmotic Treatment enhances Particle Bombardment-Mediated Transient and Stable Transformation of Maize", *Plant Cell Reports*, 1993, pp. 84-88, Vol. 12.	
	R35		
	R36		
	R37		

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